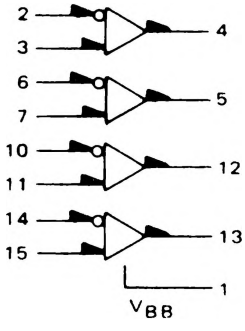


Gnd = Pin 16
$V_{CC}$ (+5.0 Vdc) = Pin 9
$V_{EE}$ (−5.2 Vdc) = Pin 8

$P_D$ = 380 mW typ/pkg (No Load)
$t_{pd}$ = 4.5 ns typ (50% to +1.5 Vdc out)

## Quad MECL to MTTL Translator

The MC10125 is a quad translator for interfacing data and control signals between the MECL section and saturated logic sections of digital systems. The MC10125 incorporates differential inputs and Schottky MTTL "totem pole" outputs. Differential inputs allow for use as an inverting/non-inverting translator or as a differential line receiver. The $V_{BB}$ reference voltage is available on pin 1 for use in single-ended input biasing. The outputs of the MC10125 go to a low logic level whenever the inputs are left floating.

Power supply requirements are ground, +5.0 Volts and −5.2 Volts. Propagation delay of the MC10125 is typically 4.5 ns. The MC10125 has fanout of 10 MTTL loads. The dc levels are MECL 10,000 in and Schottky TTL, or MTTL out. This device has an input common mode noise rejection of ±1.0 Volt.

An advantage of this device is that MECL level information can be received, via balanced twisted pair lines, in the MTTL equipment. This isolates the MECL logic from the noisy MTTL environment. This device is useful in computers, instrumentation, peripheral controllers, test equipment and digital communications systems.